Share Shape Sort

Look past the shape. Count the small boxes.

2.G.3c "Partition circles and rectangles into two, three, or four equal shares by: Recognizing that equal shares of identical wholes need not have the same shape."

NAME _____ DATE _____

EQUAL SHARES

The colored part and the blank part have the same number of small boxes. Equal shares do not have to look alike.

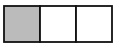
One box is colored, and one box is blank.



UNEQUAL SHARES

The colored part and the blank part have different numbers of small boxes.

One box is colored, and two boxes are blank.



1 SORT

8 items

For each figure, circle EQUAL or UNEQUAL to tell whether its colored and blank parts are equal shares.

1. 

Figure 1

EQUAL UNEQUAL

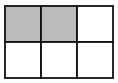
2. 

Figure 2

EQUAL UNEQUAL

3. 

Figure 3

EQUAL UNEQUAL

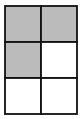
4. 

Figure 4

EQUAL UNEQUAL

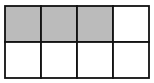
5. 

Figure 5

EQUAL UNEQUAL

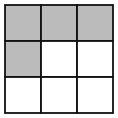
6. 

Figure 6

EQUAL UNEQUAL

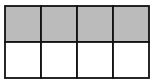
7. 

Figure 7

EQUAL UNEQUAL

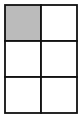
8. 

Figure 8

EQUAL UNEQUAL

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Write one new example of EQUAL shares and one new example of UNEQUAL shares. Tell how many small boxes you would color and leave blank in each rectangle.

EQUAL _____

UNEQUAL _____

CHALLENGE

Draw a rectangle with 3 rows of 4 small boxes. Color 6 boxes so the colored and blank parts have different shapes. Tell why the parts are equal.

ANSWER KEY

Share Shape Sort

GRADE 2 · 2.G.3c

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (array)	**EQUAL**	Two boxes are colored and two are blank.
2	Figure 2 (array)	**UNEQUAL**	Two boxes are colored and four are blank.
3	Figure 3 (array)	**EQUAL**	Two boxes are colored and two are blank.
4	Figure 4 (array)	**EQUAL**	Three boxes are colored and three are blank.
5	Figure 5 (array)	**UNEQUAL**	Three boxes are colored and five are blank.
6	Figure 6 (array)	**UNEQUAL**	Four boxes are colored and five are blank.
7	Figure 7 (array)	**EQUAL**	Four boxes are colored and four are blank.
8	Figure 8 (array)	**UNEQUAL**	One box is colored and five are blank.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **EQUAL**: In a rectangle with 10 small boxes, color 5 and leave 5 blank.
- **UNEQUAL**: In a rectangle with 10 small boxes, color 4 and leave 6 blank.

Challenge: Color the first 3 boxes in each of the top 2 rows. The colored part is a 2-by-3 rectangle, and the blank part is an L shape. Each part has 6 boxes.

For Part 2, accept any one equal and one unequal figure with correct counts. For the challenge, accept any coloring that makes two differently shaped parts of 6 boxes each.